

Result No.	Score	Query Match	Length	DB ID	Description
1	125	100.0	130	9	US-09-928-158B-1
2	125	100.0	145	9	US-09-928-158B-1
3	125	100.0	145	15	US-10-240-198A-6
4	125	100.0	145	18	US-10-837-029-1
5	125	100.0	145	18	US-10-837-029-1
6	125	100.0	146	13	US-10-135-984-8
7	125	100.0	165	9	US-09-782-378A-8
8	125	100.0	165	13	US-10-105-665-7
c	9	125	100.0	165	15
c	10	125	100.0	170	17
c	11	125	100.0	175	16
c	12	100.0	207	15	US-10-023-2008-58

RESULT 2  
 US-09-782-378A-6  
 Sequence 6, Application US/09782378A  
 Patent No. US20020102731A1  
 GENERAL INFORMATION:  
 APPLICANT: Hearing, Patrick  
 BAHOU, Wadie  
 Sandalow, Ziv  
 APPLICANT: Gnatenko, Dmitri  
 TITLE OF INVENTION: Adenoviral Vectors  
 FILE REFERENCE: STONY-04970  
 CURRENT FILING DATE: 2001-02-12  
 PRIOR APPLICATION NUMBER: 60/237,747  
 PRIOR FILING DATE: 2000-10-02  
 NUMBER OF SEQ ID NOS: 27  
 SOFTWARE: PatentIn version 3.0  
 SEQ ID NO 6  
 LENGTH: 145  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 US-09-782-378A-6

Query Match 100.0%; Score 125; DB 9; Length 145;  
 Best Local Similarity 100.0%; Pred. No. 9.3e-28;  
 Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCACTCCCTCTGGGGCTCCCTCGCTCACTGAGGCCAAAGGTGCC 60  
 Db 21 TTGGCACTCCCTCTGGGGCTCCCTCGCTCACTGAGGCCAAAGGTGCC 80

Qy 61 CGACGCCGGGTTGCCGGGCTAGTGAGGAGGCAAGGGCAGAGGAGTG 120  
 Db 81 CGACGCCGGGTTGCCGGGCTAGTGAGGAGGCAAGGGCAGAGGAGTG 140

RESULT 4  
 US-10-837-029-1  
 Sequence 1, Application US/10837029  
 Publication No. US2004024830A1  
 GENERAL INFORMATION:  
 APPLICANT: Engelhardt, John F.  
 TITLE OF INVENTION: ADENO ASSOCIATED VIRUS VECTORS WITH TERMINAL PALINDROMIC SEQUENCES  
 FILE REFERENCE: 875-105US1  
 CURRENT APPLICATION NUMBER: US/10/837,029  
 CURRENT FILING DATE: 2004-04-30  
 PRIOR APPLICATION NUMBER: US 10/194,421  
 PRIOR FILING DATE: 2002-07-12  
 PRIOR APPLICATION NUMBER: US 60/305,204  
 PRIOR FILING DATE: 2001-07-13  
 NUMBER OF SEQ ID NOS: 11  
 SOFTWARE: FastSEQ for Windows Version 4.0  
 SEQ ID NO 1  
 LENGTH: 145  
 TYPE: DNA  
 ORGANISM: Adeno-associated virus  
 US-10-837-029-1

Query Match 100.0%; Score 125; DB 18; Length 145;  
 Best Local Similarity 100.0%; Pred. No. 9.3e-28;  
 Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCACTCCCTCTGGGGCTCCCTCGCTCACTGAGGCCAAAGGTGCC 60  
 Db 1 TTGGCACTCCCTCTGGGGCTCCCTCGCTCACTGAGGCCAAAGGTGCC 60

Qy 61 CGACGCCGGGTTGCCGGGCTAGTGAGGAGGCAAGGGCAGAGGAGTG 120  
 Db 61 CGACGCCGGGTTGCCGGGCTAGTGAGGAGGCAAGGGCAGAGGAGTG 120

Qy 121 GCCAA 125  
 Db 121 GCCAA 125

RESULT 3  
 US-10-240-198-2  
 Sequence 2, Application US/10240198  
 Publication No. US20030100115A1  
 GENERAL INFORMATION:  
 APPLICANT: BTG International Ltd  
 APPLICANT: BEARD DR, PETER  
 APPLICANT: RAJ DR, KENNETH  
 TITLE OF INVENTION: CYTOTOXIC AGENTS  
 FILE REFERENCE: 142-84WO  
 CURRENT APPLICATION NUMBER: US/10/240,198  
 CURRENT FILING DATE: 2003-09-30  
 PRIOR APPLICATION NUMBER: 0009887.1  
 PRIOR FILING DATE: 2000-04-20  
 NUMBER OF SEQ ID NOS: 6  
 SEQ ID NO 2  
 LENGTH: 145  
 TYPE: DNA  
 ORGANISM: adeno-associated virus 2  
 FEATURE:  
 NAME/KEY: misc\_structure  
 LOCATION: (1)-(145)  
 OTHER INFORMATION: ITR  
 FEATURE:  
 NAME/KEY: misc\_feature  
 LOCATION: (72)  
 OTHER INFORMATION: Unpaired base  
 FEATURE:  
 NAME/KEY: misc\_feature  
 LOCATION: (94)

RESULT 5  
 US-10-837-029-1  
 Sequence 11, Application US/10837029  
 Publication No. US2004024830A1  
 GENERAL INFORMATION:  
 APPLICANT: Engelhardt, John F.  
 TITLE OF INVENTION: ADENO ASSOCIATED VIRUS VECTORS WITH TERMINAL PALINDROMIC SEQUENCES  
 FILE REFERENCE: 875-105US1  
 CURRENT APPLICATION NUMBER: US/10/837,029  
 CURRENT FILING DATE: 2004-04-30  
 PRIOR APPLICATION NUMBER: US 10/194,421  
 PRIOR FILING DATE: 2002-07-12



RESULT 9  
US-10-159-968-13/c  
Sequence 13, Application US/10159968  
GENERAL INFORMATION:  
APPLICANT: Kaplitt, Michael G.  
TITLE OF INVENTION: Method for Generating Replication Defective Viral Vectors That are Helper Free  
FILE REFERENCE: 600-1-286  
CURRENT APPLICATION NUMBER: US/10/159-968  
PRIOR APPLICATION NUMBER: US/10/294,797  
CURRENT FILING DATE: 2002-05-31  
PRIOR APPLICATION NUMBER: US 60/313,007  
PRIOR FILING DATE: 2001-08-07  
NUMBER OF SEQ ID NOS: 20  
SEQ ID NO: 13  
LENGTH: 165  
TYPE: DNA  
ORGANISM: Adeno-associated virus  
US-10-159-968-13

Query Match 100.0%; Score 125; DB 15; Length 165;  
Best Local Similarity 100.0%; Pred. No. 9, 1e-28;  
Matches 125; Conservative 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACTCCCTCTGGCGCGTCACTGAGGCCGACAAAGGTCGC 60  
Db 145 TTGGCCACTCCCTCTGGCGCGTCACTGAGGCCGACAAAGGTCGC 86

Qy 61 CGAGCCCCGGCTTGGCCGGCGCCCTGAGCGAGGCCGACAGGGGAGT 120  
Db 85 CGAGCCCCGGCTTGGCCGGCGCCCTGAGCGAGGCCGACAGGGGAGT 26

Qy 121 GCCAA 125  
Db 25 GCCAA 21

RESULT 10  
US-10-669-641-3  
Sequence 3, Application US/10669641  
GENERAL INFORMATION:  
APPLICANT: WAGNER, THOMAS E.  
TITLE OF INVENTION: AAV ITR-MEDIATED MODULATION  
FILE REFERENCE: 035879-0165  
CURRENT APPLICATION NUMBER: US/10/669,641  
CURRENT FILING DATE: 2003-09-15  
PRIOR APPLICATION NUMBER: 60/413,450  
PRIOR FILING DATE: 2002-09-26  
NUMBER OF SEQ ID NOS: 3  
SEQ ID NO: 3  
LENGTH: 170  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Synthetic AAV  
US-10-669-641-3

Query Match 100.0%; Score 125; DB 17; Length 170;  
Best Local Similarity 100.0%; Pred. No. 9e-28;  
Matches 125; Conservative 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACTCCCTCTGGCGCGTCACTGAGGCCGACAAAGGTCGC 60

US-10-023-208-58

Query Match 100.0%; Score 125; DB 15; Length 207;  
Best Local Similarity 100.0%; Pred. No. 8. 6e-28;  
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACTCCCTCTCGCCCTCGCTCACTAGTGCCGCAACAAAGGTGCC 60  
Db 42 TTGGCCACTCCCTCTCGCCCTCGCTCACTAGTGCCGCAACAAAGGTGCC 101

Qy 61 CGACGCCGGCTTGCCGGGCGCCCTAGTGCCGAGCGCGAGGGAGTG 120  
Db 102 CGACGCCGGCTTGCCGGGCGCCCTAGTGCCGAGCGCGAGGGAGTG 161

Qy 121 GCCAA 125  
Db 162 GCCAA 166

RESULT 13

US-09-845-416-26

Sequence 26, Application US/09845416  
Publication No. US20030171312A1

GENERAL INFORMATION:

APPLICANT: XIAO, XIAO

TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

TITLE OF INVENTION: THEREOF

FILE REFERENCE: DE1142

CURRENT APPLICATION NUMBER: US/09/845,416

CURRENT FILING DATE: 2001-04-30

PRIOR APPLICATION NUMBER: 60/200,777

PRIOR FILING DATE: 2000-04-28

NUMBER OF SEQ ID NOS: 36

SEQ ID NO 26

LENGTH: 955

TYPE: DNA

ORGANISM: Homo sapiens

US-09-845-416-26

Query Match 100.0%; Score 125; DB 10; Length 955;  
Best Local Similarity 100.0%; Pred. No. 6. 2e-28;  
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACTCCCTCTCGCCCTCGCTCACTAGTGCCGAGGGGCCACAAAGGTGCC 60  
Db 1 TTGGCCACTCCCTCTCGCCCTCGCTCACTAGTGCCGAGGGGCCACAAAGGTGCC 60

Qy 61 CGACGCCGGCTTGCCGGGGCCCTAGTGCCGAGCGCGAGGGAGTG 120  
Db 61 CGACGCCGGCTTGCCGGGGCCCTAGTGCCGAGCGCGAGGGAGTG 120

Qy 121 GCCAA 125  
Db 121 GCCAA 125

RESULT 14

US-09-845-416-26/c

Sequence 26, Application US/09845416  
Publication No. US20030171312A1

GENERAL INFORMATION:

APPLICANT: XIAO, XIAO

TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

FILE REFERENCE: DE1142

CURRENT APPLICATION NUMBER: US/09/845,416

CURRENT FILING DATE: 2001-04-30

PRIOR APPLICATION NUMBER: 60/200,777

PRIOR FILING DATE: 2000-04-28

NUMBER OF SEQ ID NOS: 36

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 26

LENGTH: 987

TYPE: DNA

ORGANISM: Homo sapiens

US-09-845-416-33

Query Match 100.0%; Score 125; DB 10; Length 987;  
Best Local Similarity 100.0%; Pred. No. 6. 2e-28;  
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACTCCCTCTCGCCCTCGCTCACTAGTGCCGAGGGGCCACAAAGGTGCC 60  
Db 1 TTGGCCACTCCCTCTCGCCCTCGCTCACTAGTGCCGAGGGGCCACAAAGGTGCC 60

Qy 61 CGACGCCGGCTTGCCGGGGCCCTAGTGCCGAGCGCGAGGGAGTG 120  
Db 61 CGACGCCGGCTTGCCGGGGCCCTAGTGCCGAGCGCGAGGGAGTG 120

Qy 121 GCCAA 125  
Db 121 GCCAA 125

Search completed: December 23, 2004, 14:51:21  
Job time : 214.889 secs

This Page Blank (uspto)

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 23, 2004, 11:48:10 ; Search time 48.6111 Seconds  
(without alignment(s))  
1827.743 Million cell updates/sec

Title: US-10-620-039-1\_COPY\_1\_125  
Perfect score: 125  
Sequence: 1 TTGCACTCCCTCTGGC.....CGCAGAGGGAGTGGCAA 125

Scoring table: IDENTITY\_NUC  
Gapopen 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0  
Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents\_NA:  
1: /cgn2\_6/ptodata/1/ina/5A COMB.seq:  
2: /cgn2\_6/ptodata/1/ina/5B COMB.seq:  
3: /cgn2\_6/ptodata/1/ina/6A COMB.seq:  
4: /cgn2\_6/ptodata/1/ina/6B COMB.seq:  
5: /cgn2\_6/ptodata/1/ina/PCITS COMB.seq:  
6: /cgn2\_6/ptodata/1/ina/backfile1.seq:  
\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description	
1	125	100.0	145	1 US-07-789-917A-1	Sequence 1, Appli	
2	125	100.0	145	3 US-08-705-573-4	Sequence 4, Appli	
c	3	125	100.0	145	3 US-08-866-1	Sequence 1, Appli
4	125	100.0	145	3 US-07-985-193-1	Sequence 1, Appli	
5	125	100.0	165	1 US-07-985-841A-1	Sequence 1, Appli	
6	125	100.0	165	2 US-08-440-738A-1	Sequence 1, Appli	
7	125	100.0	165	3 US-08-471-914-1	Sequence 7, Appli	
8	125	100.0	165	4 US-09-276-625-7	Sequence 3, Appli	
9	125	100.0	192	3 US-08-573-3	Sequence 1, Appli	
10	125	100.0	4680	1 US-08-234-358-1	Sequence 1, Appli	
11	125	100.0	4680	1 US-08-475-391-1	Sequence 1, Appli	
12	125	100.0	4680	2 US-08-709-609-1	Sequence 1, Appli	
13	125	100.0	4680	5 PCT-US95-07118-1	Sequence 18, Appli	
14	125	100.0	4681	4 US-09-807-802A-18	Sequence 19, Appli	
15	125	100.0	4683	4 US-09-807-802A-19	Sequence 4, Appli	
16	125	100.0	5332	4 US-09-299-141-4	Sequence 4, Appli	
c	17	125	100.0	5932	4 US-09-299-141-4	Sequence 4, Appli
c	18	125	100.0	6142	4 US-09-299-141-8	Sequence 8, Appli
c	19	125	100.0	6142	4 US-09-299-141-8	Sequence 8, Appli
c	20	125	100.0	6253	3 US-08-893-327-15	Sequence 15, Appli
c	21	125	100.0	6253	3 US-08-893-327-15	Sequence 17, Appli
c	22	125	100.0	6280	3 US-08-893-327-17	Sequence 17, Appli
c	23	125	100.0	6280	3 US-08-893-327-17	Sequence 17, Appli
c	24	125	100.0	6280	3 US-08-893-327-19	Sequence 19, Appli
c	25	125	100.0	6280	3 US-08-893-327-19	Sequence 19, Appli
c	26	125	100.0	6565	4 US-09-299-141-1	Sequence 1, Appli
c	27	125	100.0	6565	4 US-09-299-141-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1  
US-07-789-917A-1  
; Sequence 1, Application US-07789917A  
; Patent No. 5252479

GENERAL INFORMATION:  
; APPLICANT: Srivastava, Arun  
; TITLE OF INVENTION: SAFE VECTOR FOR GENE THERAPY  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Scully, Scott, Murphy Presser  
; STREET: 400 Garden City Plaza  
; CITY: Garden City  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 11530  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release q.0, Version q.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US-07-789, 917A  
; FILING DATE: 19911118  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: McNulty, William E.  
; REGISTRATION NUMBER: 22,606  
; REFERENCE/DOCKET NUMBER: 8361  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (516) 742-4343  
; TELEFAX: (516) 742-4366  
; TELEX: 230 901 SANS UR  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 145 base pairs  
; TYPE: NUCLEAR ACID  
; STRANDEDNESS: Single  
; TOPOLOGY: Linear  
; MOLECULE TYPE: DNA (genomic)  
; US-07-789-917A-1

Query Match 100.0% ; Score 125; DB 1; Length 145;  
Best Local Similarity 100.0%; Pred. No. 4.5e-25;  
Matches 0; Mismatches 0; Gaps 0;

Qy 1 TTTGGCACTCCCTCTGGCGCTCTGGCTCACTGGCGCGGCGACCAAGGTGGCC 60  
Db 1 TTGGCACTCCCTCTGGCGCTCTGGCTCACTGGCGGGGCGACCAAGGTGGCC 60  
Qy 61 CGACGCCGGGGCTTGGCGGGGGCTCACTGGAGGAGGCGAGGGCGAGAGGGGTG 120

Db 61 |||||GGCTTGGGGGGCTCACTGAGCGGCCAGAGGGAGTC 120  
 Qy 121 GCCAA 125  
 Db 121 GCCAA 125

Qy 121 GCCAA 125  
 Db 121 GCCAA 125

RESULT 2  
 US-08-702-573-4  
 ; Sequence 4, Application US/08702573  
 ; Patent No. 6038885  
 ; GENERAL INFORMATION  
 ; APPLICANT: LATTIA, Martine  
 ; APPLICANT: DENEFLÉ, Patrice  
 ; APPLICANT: VIGNE, Emmanuelle  
 ; APPLICANT: PERRICAUDET, Michel  
 ; TITLE OF INVENTION: INTEGRATIVE RECOMBINANT ADENOVIRUSES,  
 ; TITLE OF INVENTION: PREPARATION THEREOF AND THERAPEUTICAL USES THEREOF  
 ; NUMBER OF SEQUENCES: 13

; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Rhone-Poulenc Rorer Inc.  
 ; STREET: 500 Arcola Rd. 3C43  
 ; CITY: Collegeville  
 ; STATE: PA  
 ; COUNTRY: USA  
 ; ZIP: 19426  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: FLOPPY disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patentin Release #1.0, Version #1.3.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/702,573  
 ; FILING DATE:  
 ; CLASSIFICATION: 424  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: FR 94/02445  
 ; FILING DATE: 03-MAR-1994  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: WO PCT/FR95/00233  
 ; FILING DATE: 28-FEB-1995  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Smith Ph.D., Julie K.  
 ; REGISTRATION NUMBER: 38,619  
 ; REFERENCE/DOCKET NUMBER: ST94011-US  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (610)454-3839  
 ; TELEFAX: (610)454-3808  
 ; INFORMATION FOR SEQ ID NO: 4:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 145 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: double  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: other nucleic acid  
 ; FEATURE:  
 ; NAME/KEY: misc feature  
 ; LOCATION: 1..145  
 ; OTHER INFORMATION: /note= "Minimal ITR Sequence"  
 ; US-08-702-573-4

Query Match 100.0%; Score 125; DB 3; Length 145;  
 Best Local Similarity 100.0%; Pred. No. 4.5e-25;  
 Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 121 GCCAA 125  
 Db 121 GCCAA 125

RESULT 3  
 US-08-525-866-1/c

; Sequence 1, Application US/08525866  
 ; Patent No. 620457  
 ; GENERAL INFORMATION:  
 ; APPLICANT: NATSOULIS, GEORGES  
 ; APPLICANT: FURDOSKY, RICHARD T.  
 ; TITLE OF INVENTION: TARGETED NUCLEOTIDE SEQUENCE DELIVERY  
 ; TITLE OF INVENTION: AND INTEGRATION SYSTEM  
 ; NUMBER OF SEQUENCES: 6

; CORRESPONDENCE ADDRESS:  
 ; ADDRESS: REED & ROBINS  
 ; STREET: 285 Hamilton Avenue, Suite 200  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: USA  
 ; ZIP: 94301  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: FLOPPY disk  
 ; COMPUTER: IBM PC Compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patentin Release #1.0, Version #1.3.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/525,866  
 ; FILING DATE: 08-SEP-1995  
 ; CLASSIFICATION: 514  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: ROBINS, ROBERTA L.  
 ; REGISTRATION NUMBER: 33,208  
 ; REFERENCE/DOCKET NUMBER: 0800-00006  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (415) 327-3231  
 ; TELEFAX: (415) 327-3231  
 ; INFORMATION FOR SEQ ID NO: 1:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 145 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; US-08-525-866-1

Query Match 100.0%; Score 125; DB 3; Length 145;  
 Best Local Similarity 100.0%; Pred. No. 4.5e-25;  
 Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 121 GCCAA 125  
 Db 121 GCCAA 125

RESULT 4  
 US-07-982-193-1

; Sequence 1, Application US/07982193  
 ; Patent No. 6261834  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Srivastava, Arun  
 ; TITLE OF INVENTION: SAFE VECTOR FOR GENE THERAPY  
 ; NUMBER OF SEQUENCES: 2  
 ; CORRESPONDENCE ADDRESS:

ADDRESSEE: Scully, Scott, Murphy & Presser  
 STREET: 400 Garden City Plaza  
 CITY: Garden City  
 STATE: New York  
 COUNTRY: USA  
 ZIP: 11530  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/07/982,193  
 FILING DATE: 1992/11/25  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: McNulty, William E.  
 REGISTRATION NUMBER: 22,606  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (516) 742-4343  
 TELEFAX: (516) 742-4366  
 TELEX: 230 901 SANS UR  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 145 base pairs  
 TYPE: NUCLEIC ACID  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 US-07-982-193-1

Query Match 100.0%; Score 125; DB 3; Length 145;  
 Best Local Similarity 100.0%; Pred. No. 4,5e-25;  
 Matches 125; Conservative 0; Indels 0; Gaps 0;  
 RESULT 5

Qy 1 TTAGGCCACTCCCTCTCTGGCGCTGCGTCACTGAGGCCGACACAGGTGCC 60  
 Db 1 TTAGGCCACTCCCTCTCTGGCGCTGCGTCACTGAGGCCGACACAGGTGCC 60

Qy 61 CGAGGCCGGCTTGCGGGCGCCCTAGTGAGCGAGGAGGAGT 120  
 Db 61 CGAGGCCGGCTTGCGGGCGCCCTAGTGAGCGAGGAGGAGT 120

Qy . 121 GCCAA 125  
 Db 121 GCCAA 125

RESULT 5  
 US-07-989-841A-1

Sequence 1, Application US/07989841A  
 Patent No. 5478145  
 GENERAL INFORMATION  
 APPLICANT: Samulski, R. J.  
 ADDRESSEE: Xiao, X.  
 STREET: 1155 Avenue of the Americas  
 CITY: New York  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 10036-2711  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/07/989, 841A  
 FILING DATE: On even date herewith

CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Coruzzi, Laura A.  
 REGISTRATION NUMBER: 30,742  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 790-9090  
 TELEX: (212) 869-8864/9741  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 165 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: unknown (genomic)  
 MOLECULE TYPE: DNA (genomic)  
 US-07-989-841A-1

Query Match 100.0%; Score 125; DB 1; Length 165;  
 Best Local Similarity 100.0%; Pred. No. 4.5e-25;  
 Matches 125; Conservative 0; Indels 0; Gaps 0;

Qy 1 TGGCACTCCCTCTGGCGCTGCGTCACTGAGGCCGACACAGGTGCC 60  
 Db 21 TGGCACTCCCTCTGGCGCTGCGTCACTGAGGCCGACACAGGTGCC 80

Qy 61 CGACGCCGGCTTGCGGGCTTGCGGGCTCTAGTGAGCGAGGAGT 120  
 Db 81 CGACGCCGGCTTGCGGGCTTGCGGGCTCTAGTGAGCGAGGAGT 140

Qy 121 GCCAA 125  
 Db 141 GCCAA 145

RESULT 6  
 US-08-440-738A-1

Sequence 1, Application US/08440738A  
 Patent No. 589305  
 GENERAL INFORMATION:  
 APPLICANT: Samulski, R. J.  
 ADDRESSEE: Xiao, X.  
 STREET: 1155 Avenue of the Americas  
 CITY: New York  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 10036-2711  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/440,738A  
 FILING DATE: May 15, 1995  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Coruzzi, Laura A.  
 REGISTRATION NUMBER: 30,742  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 790-9090  
 TELEX: (212) 869-8864/9741  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 165 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double



TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 FEATURE TYPE: other nucleic acid  
 NAME/KEY: misc\_feature  
 LOCATION: 1..192  
 OTHER INFORMATION: /note= "Right ITR Sequence in  
 Patent No. 6033885  
 OTHER INFORMATION: pXL2384"  
 US-08-102-573-3

Query Match 100.0%; Score 125; DB 3; Length 192;  
 Best Local Similarity 100.0%; Pred. No. 4.5e-25;  
 Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACTCCCTCTGGCGCTGCTCACTGAGCCGGCACAAAGGTGGC 60  
 Db 68 TTGGCCACTCCCTCTGGCGCTGCTCACTGAGCCGGCACAAAGGTGGC 60

Qy 61 CGACGCCGGGCGCTTGCCGGCGCCCTAGTGAAGCGGCAGAGGGACTG 120  
 Db 61 CGACGCCGGGCGCTTGCCGGCGCCCTAGTGAAGCGGCAGAGGGACTG 120

Qy 121 GCCAA 125  
 Db 121 GCCAA 125

RESULT 11  
 US-08-475-391-1  
 Sequence 1, Application US/08475391  
 ; Patent No. 5786211  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Johnson, Philip R.  
 ; TITLE OF INVENTION: Adeno-Associated Virus Materials and  
 ; NUMBER OF SEQUENCES: 3  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
 ; STREET: 6300 Sears Tower, 233 S. Wacker Drive  
 ; CITY: Chicago  
 ; STATE: Illinois  
 ; COUNTRY: USA  
 ; ZIP: 60606  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/475,391  
 ; FILING DATE: 07-JUN-1995  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/254,358  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: No. 5786211and, Greta B.  
 ; REGISTRATION NUMBER: 35,302  
 ; REFERENCE DOCKET NUMBER: 31975  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (312) 474-6300  
 ; TELEX: (312) 474-0448  
 ; INFORMATION FOR SEQ ID NO: 1:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 4680 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: DNA (genomic)  
 ; US-08-475-391-1

Query Match 100.0%; Score 125; DB 1; Length 4680;  
 Best Local Similarity 100.0%; Pred. No. 5.2e-25;  
 Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACTCCCTCTGGCGCTGCTCACTGAGCCGGCACAAAGGTGGC 60  
 Db 1 TTGGCCACTCCCTCTGGCGCTGCTCACTGAGCCGGCACAAAGGTGGC 60

Qy 61 CGACGCCGGGCGCTTGCCGGCGCCCTAGTGAAGCGGCAGAGGGACTG 120  
 Db 61 CGACGCCGGGCGCTTGCCGGCGCCCTAGTGAAGCGGCAGAGGGACTG 120

Query Match 100.0%; Score 125; DB 15; Length 4680;  
 Best Local Similarity 100.0%; Pred. No. 5.2e-25;  
 Qy 121 GCCAA 125

Db 121 ||||| 125

RESULT 12  
US-08-709-609-1  
Sequence 1, Application US/08709609  
Patent No. 5858775

GENERAL INFORMATION:  
APPLICANT: Johnson, Phillip R.  
TITLE OF INVENTION: Adeno-Associated Virus Materials and Methods  
NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
STREET: 6300 Sears Tower, 233 S. Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60606

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/709,609  
FILING DATE:  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: No. 5858775 and, Greta E.  
REGISTRATION NUMBER: 35,302  
REFERENCE/DOCKET NUMBER: 31975

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (312) 474-6300  
TELEFAX: (312) 474-0448  
TELEX: 25-3856

SEQUENCE CHARACTERISTICS:  
LENGTH: 4680 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)

US-08-709-609-1

Query Match 100.0%; Score 125; DB 2; Length 4680;  
Best Local Similarity 100.0%; Pred. No. 5.2e-25;  
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 TTGGCCACTCCCTCTGGCGCTGCTCACTGGCCGGGCAACAAAGGTCCC 60

Qy 1 TTGGCCACTCCCTCTGGCGCTGCTCACTGGCCGGGCAACAAAGGTCCC 60

Db 1 CGACGCCGGCTTGGCCGGGCTTGGCCGGGCTTGGCCGGGCTTGGCCGGG 120

Qy 1 CGACGCCGGCTTGGCCGGGCTTGGCCGGGCTTGGCCGGGCTTGGCCGGG 120

Db 1 GAACTGGGGCTTGGCCGGGCTTGGCCGGGCTTGGCCGGGCTTGGCCGGG 120

Qy 121 GCCAA 125

Db 121 GCCAA 125

Db 121 GCCAA 125

RESULT 13  
PCT-US95-07178-1  
Sequence 1, Application PC/TUSS9507178  
GENERAL INFORMATION:  
APPLICANT: Johnson, Phillip R.  
TITLE OF INVENTION: Adeno-Associated Virus Materials and Methods  
NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun

RESULT 15

US-09-807-802A-19

Sequence 19, Application US/09807802A

Patent No. 6759337

GENERAL INFORMATION:

APPLICANT: Wilson, James M.

APPLICANT: Xiao, Weidong

TITLE OF INVENTION: Adeno-Associated Virus Serotype I Nucleic Acid Sequences, FILE REFERENCE: GIVN.031USA

CURRENT APPLICATION NUMBER: US/09/807,802A

CURRENT FILING DATE: 2002-02-21

PRIOR APPLICATION NUMBER: US 60/107,114

PRIOR FILING DATE: 1998-11-05

PRIOR APPLICATION NUMBER: PCT/US99/25694

PRIOR FILING DATE: 1999-11-02

NUMBER OF SEQ ID NOS: 20

SOFTWARE: PatentIn version 3.1

SEQ ID NO 19

LENGTH: 4683

TYPE: DNA

ORGANISM: AAV-6

US-09-807-802A-19

Query Match 100.0%; Score 125; DB 4; Length 4683;

Best Local Similarity 100.0%; Pred. No. 5.2e-25;

Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy.	Db	Score	DB	Length
Qy	1	TTGGCCATCCCTCTTGCCGGCTCCTCACTGAGCCGGCGACCAAAAGTCGCC	60	60
Qy	1	TTGGCCATCCCTCTTGCCGGCTCCTGAGCCGGCGACCAAAAGTCGCC	60	60
Qy	61	CGACCCCGGGCTTGGCCGGCGCTCTGAGCCGGCGACCAAAAGTCGCC	120	120
Qy	61	CGACCCCGGGCTTGGCCGGCGACCAAAAGTCGCC	120	120
Qy	121	GCCAA 125	125	125
Qy	121	GCCAA 125	125	125

Search completed: December 23, 2004, 13:22:11  
Job time : 49.611 secs

This Page Blank (uspto)

maximum DB seq length: 200000000  
RESULT 1  
US-07-789-917A-1

; Sequence 1, Application US/07789917A

Maximum Match 100% Minimum 50%  $\dots$

卷之三

```

1: /cgn2_6/podata/1/ina/5A_COMB.seq*
2: /cgn2_6/podata/1/ina/5B_COMB.seq*
3: /cgn2_6/podata/1/ina/6A_COMB.seq*
4: /cgn2_6/podata/1/ina/6B_COMB.seq*
5: /cgn2_6/podata/1/ina/PCUTS_COMB.seq*
6: /cgn2_6/podata/1/ina/backfile1.seq*

```

No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

CHAPTER

Result No.	Score	Query		Length	DB	ID	Description
		Match	Start				
1	145	100.0	145	1	US-07-789-917A-1		Sequence 1, A
2	145	100.0	145	3	US-08-702-573-4		Sequence 4, A
3	145	100.0	145	3	US-07-980-193-1		Sequence 1, A
4	145	100.0	165	1	US-07-989-841A-1		Sequence 1, A
5	145	100.0	165	3	US-08-440-738A-1		Sequence 1, A
6	145	100.0	165	3	US-07-471-914-1		Sequence 1, A
7	145	100.0	165	4	US-09-216-625-7		Sequence 7, A
8	145	100.0	4680	1	US-08-234-358-1		Sequence 1, B
9	145	100.0	4680	1	US-08-475-391-1		Sequence 1, B
10	145	100.0	4680	2	US-08-709-609-1		Sequence 1, A
11	145	100.0	4680	5	PCT-US95-07178-1		Sequence 1, B
12	145	100.0	4681	4	US-09-807-802A-18		Sequence 18, B
13	145	100.0	4683	4	US-09-807-802A-19		Sequence 19, B
14	145	100.0	5932	4	US-09-299-141-4		Sequence 4, A
15	145	100.0	5932	4	US-09-299-141-4		Sequence 4, B
16	145	100.0	6142	4	US-09-299-141-4		Sequence 8, A
17	145	100.0	6142	4	US-09-299-141-8		Sequence 8, B
18	145	100.0	6253	3	US-08-893-327-15		Sequence 15, B
19	145	100.0	6253	3	US-08-893-327-15		Sequence 15, A
20	145	100.0	6280	3	US-08-893-327-17		Sequence 17, B
21	145	100.0	6280	3	US-08-893-327-17		Sequence 17, A
22	145	100.0	6280	3	US-08-893-327-19		Sequence 19, B
23	145	100.0	6280	3	US-08-893-327-19		Sequence 19, A
24	145	100.0	6565	4	US-09-299-141-1		Sequence 1, A
25	145	100.0	6565	4	US-09-299-141-1		Sequence 1, B
26	145	100.0	6714	4	US-09-299-141-6		Sequence 6, A
27	145	100.0	6714	4	US-09-299-141-6		Sequence 6, B

```

Query Match 100.0%; Score 145; DB 1; Length 145;
Best Local Similarity 100.0%; Pred. No. 2e-31;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

1	TTGGCCACTCCCTCTGGCGCTCTGGCTCACTGACGCCGGGACCAAGGTGGCC	60
1	TTGGCCACTCCCTCTGGCGCTCTGGCTCACTGACGCCGGGACCAAGGTGGCC	60
61	CGACGCCGGCTTTCGCCGGGCTCACTGAGCGAGCGCGAGAGGGAGTG	120



```

FILING DATE: May 15, 1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
  NAME: Coruzzi, Laura A
  REGISTRATION NUMBER: 30,742
  REFERENCE/DOCKET NUMBER: 6636-022
  TELECOMMUNICATION INFORMATION:
    TELEPHONE: (212) 790-9090
    TELEFAX: (212) 869-8864/9741
    TELEX: 66141 PENNIE
  INFORMATION FOR SEQ ID NO: 1:
    / SEQUENCE CHARACTERISTICS:
      LENGTH: 165 base pairs
      TYPE: nucleic acid
      STRANDEDNESS: double
      TOPOLOGY: unknown
    / MOLECULE TYPE: DNA (genomic)
  US-08-440-738A-1

Query Match          100.0%;  Score 145;  DB 2;  Length 165;
Best Local Similarity 100.0%;  Pred. No. 2,1e-31;
Matches 145;  Conservative 0;  Mis matches 0;  Indels 0;  Gaps 0;
  Qy  1 TTGGCCACTCCCTCTCTGGCCGCTGGCTCGCTCACTGAGGCCGACCAAGGTCGCC 60
  Db  21 TTGGCCACTCCCTCTCTGGCCGCTGGCTCGCTCACTGAGGCCGACCAAGGTCGCC 80
  Qy  61 CGACCCCGGGCTTGGCCGGACCCCTAGTGAGGAGGGAGGAGGAGTGC 120
  Db  81 CGACCCCGGGCTTGGCCGGACCCCTAGTGAGGAGGGAGGAGGAGTGC 140
  Qy  121 GCCAATCTCCATCACTAGGGCTTCT 145
  Db  141 GCCAATCTCCATCACTAGGGCTTCT 165

RESULT 6
US-08-471-914-1
  / Sequence 1, Application US/08471914A
  / Patent No. 6057152
  / GENERAL INFORMATION: RECOMBINANT VIRAL VECTOR SYSTEM
  / APPLICANT: Samulski, R.
  / APPLICANT: Xiao, X.
  / TITLE OF INVENTION: RECOMBINANT VIRAL VECTOR SYSTEM
  / FILE REFERENCE: 636 -07
  / CURRENT APPLICATION NUMBER: US/08/471,914A
  / CURRENT FILING DATE: 1995-06-06
  / EARLIER APPLICATION NUMBER: US/440,738
  / EARLIER FILING DATE: 1995-05-15
  / NUMBER OF SEQ ID NOS: 13
  / SOFTWARE: PatentIn Ver. 2.0
  / SEQ ID NO: 1
  / LENGTH: 165
  / TYPE: DNA
  / ORGANISM: Artificial Sequence
  / FEATURE:
  / OTHER INFORMATION: Description of Artificial Sequence: double-D
  US-08-471-914-1

Query Match          100.0%;  Score 145;  DB 3;  Length 165;
Best Local Similarity 100.0%;  Pred. No. 2, 1e-31;
Matches 145;  Conservative 0;  Mis matches 0;  Indels 0;  Gaps 0;
  Qy  1 TTGGCCACTCCCTCTGGCCGCTGGCTCGCTCACTGAGGCCGACCAAGGTCGCC 60
  Db  21 TTGGCCACTCCCTCTGGCCGCTGGCTCGCTCACTGAGGCCGACCAAGGTCGCC 80
  Qy  61 CGACCCCGGGCTTGGCCGGACCCCTAGTGAGGAGGGAGGAGTGC 120
  Db  81 CGACCCCGGGCTTGGCCGGACCCCTAGTGAGGAGGGAGGAGTGC 140
  Qy  121 GCCAATCTCCATCACTAGGGCTTCT 145

```

Db 141 ||||||| GCAA||CTCATCACTAGGGTCTCCT 165

RESULT 7

US-09-276-625-7 Application US/09276625

GENERAL INFORMATION:

APPLICANT: Engelhardt, John F.

APPLICANT: Duan, Dongsheng

TITLE OF INVENTION: Adeno-associated virus vectors

FILE REFERENCE: 875 007US1

CURRENT FILING DATE: 1999-03-25

PATENT NUMBER: US 646392

PRIOR APPLICATION NUMBER: US 60/086,166

PRIOR FILING DATE: 1998-05-20

NUMBER OF SEQ ID NOS: 13

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 7

LENGTH: 165

TYPE: DNA

ORGANISM: Unknown

FEATURE:

OTHER INFORMATION: SEQ ID NO:1 of U.S. Patent No. 6436392 5,478,745

US-09-276-625-7

Query Match 100.0%; Score 145; DB 4; Length 165;

Best Local Similarity 100.0%; Pred. No. 2.1e-31;

Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 8

US-08-254-358-1

Sequence 1, Application US/08254358

Patent No. 5658785

GENERAL INFORMATION:

APPLICANT: Johnson, Philip R.

TITLE OF INVENTION: Adeno-Associated Virus Materials and Methods

NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:

ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun

STREET: 6300 Sears Tower, 233 S. Wacker Drive

CITY: Chicago

STATE: Illinois

ZIP: 60606

COMPUTER READABLE FORM:

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/254,358

FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: No. 5786211and, Greta E.

REGISTRATION NUMBER: 35,302

REFERENCE/DOCKET NUMBER: 31975

TELECOMMUNICATION INFORMATION:

TELEPHONE: (312) 474-6300

TELEFAX: (312) 474-0448

TELEX: 25-3856

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 4680 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

Db 121 GCCAACTCCATCACTAGGGTTCTCCT 145

Db 121 GCCAACTCCATCACTAGGGTTCTCCT 145

RESULT 9

US-08-475-391-1

Sequence 1, Application US/08475391

Patent No. 5786211

GENERAL INFORMATION:

APPLICANT: Johnson, Philip R.

TITLE OF INVENTION: Adeno-Associated Virus Materials and Methods

NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:

ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun

STREET: 6300 Sears Tower, 233 S. Wacker Drive

CITY: Chicago

STATE: Illinois

ZIP: 60606

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/475,391

FILING DATE: 07-JUN-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/254,358

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: No. 5786211and, Greta E.

REGISTRATION NUMBER: 35,302

REFERENCE/DOCKET NUMBER: 31975

TELECOMMUNICATION:

TELEPHONE: (312) 474-6300

TELEFAX: (312) 474-0448

TELEX: 25-3856

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 4680 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

US-08-475-391-1

Query Match 100.0%; Score 145, DB 1; Length 4680;  
Best Local Similarity 100.0%; Pred. No. 2.9e-31;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 11  
PCT-US95-07178-1  
Sequence 1, Application PC/TUS9507178  
GENERAL INFORMATION:  
APPLICANT: Johnson, Philip R.  
TITLE OF INVENTION: Adeno-Associated Virus Materials and Methods  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
STREET: 6300 Sears Tower, 233 S. Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/07178  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Noland, Greta E.  
REGISTRATION NUMBER: 35,302  
REFERENCE/DOCKET NUMBER: 3.975  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (312) 474-6300  
TELEFAX: (312) 474-0448  
TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4680 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)

US-08-709-609-1  
Sequence 1, Application US/08709609  
GENERAL INFORMATION:  
Patent No. 5858775  
APPLICANT: Johnson, Philip R.  
TITLE OF INVENTION: Adeno-Associated Virus Materials and Methods  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
STREET: 6300 Sears Tower, 233 S. Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08709 609  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: No. 5858775 and, Greta E.  
REGISTRATION NUMBER: 35,302  
REFERENCE/DOCKET NUMBER: 3.1975  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (312) 474-6300  
TELEFAX: (312) 474-0448  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4680 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)

US-08-709-609-1  
Query Match 100.0%; Score 145, DB 2; Length 4680;  
Best Local Similarity 100.0%; Pred. No. 2.9e-31;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 12  
US-09-807-802A-18  
Sequence 18, Application US/09807802A  
GENERAL INFORMATION:  
Patent No. 6759237  
APPLICANT: Wilson, James M.  
TITLE OF INVENTION: Adeno-Associated Virus Serotype I Nucleic Acid  
FILED: 03/11/03  
PRIORITY: 03/11/03  
TITLE OF INVENTION: Vectors and Host Cells Containing Same

US-08-475-391-1

Query Match 100.0%; Score 145, DB 1; Length 4680;  
Best Local Similarity 100.0%; Pred. No. 2.9e-31;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 11  
PCT-US95-07178-1  
Sequence 1, Application PC/TUS9507178  
GENERAL INFORMATION:  
APPLICANT: Johnson, Philip R.  
TITLE OF INVENTION: Adeno-Associated Virus Materials and Methods  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
STREET: 6300 Sears Tower, 233 S. Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/07178  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Noland, Greta E.  
REGISTRATION NUMBER: 35,302  
REFERENCE/DOCKET NUMBER: 3.975  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (312) 474-6300  
TELEFAX: (312) 474-0448  
TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4680 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)

US-08-709-609-1  
Sequence 1, Application US/08709609  
GENERAL INFORMATION:  
Patent No. 5858775  
APPLICANT: Johnson, Philip R.  
TITLE OF INVENTION: Adeno-Associated Virus Materials and Methods  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
STREET: 6300 Sears Tower, 233 S. Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08709 609  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: No. 5858775 and, Greta E.  
REGISTRATION NUMBER: 35,302  
REFERENCE/DOCKET NUMBER: 3.1975  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (312) 474-6300  
TELEFAX: (312) 474-0448  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4680 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)

US-08-709-609-1  
Query Match 100.0%; Score 145, DB 2; Length 4680;  
Best Local Similarity 100.0%; Pred. No. 2.9e-31;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 12  
US-09-807-802A-18  
Sequence 18, Application US/09807802A  
GENERAL INFORMATION:  
Patent No. 6759237  
APPLICANT: Wilson, James M.  
TITLE OF INVENTION: Adeno-Associated Virus Serotype I Nucleic Acid  
FILED: 03/11/03  
PRIORITY: 03/11/03  
TITLE OF INVENTION: Vectors and Host Cells Containing Same

CURRENT APPLICATION NUMBER: US/09/807,802A  
 CURRENT FILING DATE: 2002-02-21  
 PRIORITY NUMBER: US 60/107,114  
 PRIOR FILING DATE: 1998-11-05  
 PRIOR APPLICATION NUMBER: PCT/US99/25694  
 PRIOR FILING DATE: 1999-11-02  
 NUMBER OF SEQ ID NOS: 20  
 SOFTWARE: Patentin version 3.1  
 SEQ ID NO: 18  
 LENGTH: 4681  
 TYPE: DNA  
 ORGANISM: AAV-2  
 US-09-807-802A-18

Query Match 100.0%; Score 145; DB 4; Length 4681;  
 Best Local Similarity 100.0%; Pred. No. 2.9e-31;  
 Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACTCCCTCTGGCGCTGCTGTCAGTGGCGGGCACAAAGGTGCC 60  
 Db 1 TTGGCCACTCCCTCTGGCGCTGCTGTCAGTGGCGGGCACAAAGGTGCC 60

Qy 61 CGACGCCGGGCTTGGCCGGGCGCTAGTGGAGCGAGGGAGTG 120  
 Db\* 61 CGACGCCGGTGGCCGGCGCTAGTGGAGCGAGGGAGTG 120

Qy 121 GCCAACTCCATCACTAGGGTCT 145  
 Db 121 GCCAACTCCATCACTAGGGTCT 145

RESULT 13  
 US-09-807-802A-19  
 Sequence 19, Application US/0907802A  
 Patent No. 6759237  
 GENERAL INFORMATION:  
 APPLICANT: Xiao, Weidong  
 APPLICANT: Wilson, James M.  
 APPLICANT: Adeno-Associated Virus Serotype I Nucleic Acid Sequences,  
 TITLE OF INVENTION: Vectors and Host Cells Containing Same  
 FILE REFERENCE: GINVN:0310USA

CURRENT APPLICATION NUMBER: US/09/807,802A  
 CURRENT FILING DATE: 2002-02-21  
 PRIORITY NUMBER: US 60/107,114  
 PRIOR FILING DATE: 1998-11-05  
 PRIOR APPLICATION NUMBER: PCT/US99/25694  
 PRIOR FILING DATE: 1999-11-02  
 NUMBER OF SEQ ID NOS: 20  
 SOFTWARE: Patentin version 3.1  
 SEQ ID NO: 19  
 LENGTH: 4683  
 TYPE: DNA  
 ORGANISM: AAV-6  
 US-09-807-802A-19

Query Match 100.0%; Score 145; DB 4; Length 4683;  
 Best Local Similarity 100.0%; Pred. No. 2.9e-31;  
 Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACTCCCTCTGGCGCTGCTGTCAGTGGCGGGCACAAAGGTGCC 60  
 Db 1 TTGGCCACTCCCTCTGGCGCTGCTGTCAGTGGCGGGCACAAAGGTGCC 60

Qy 61 CGACGCCGGGCTTGGCCGGCGCTAGTGGAGCGAGGGAGTG 120  
 Db 61 CGACGCCGGTGGCCGGCGCTAGTGGAGCGAGGGAGTG 120

Qy 121 GCCAACTCCATCACTAGGGTCT 145  
 Db 121 GCCAACTCCATCACTAGGGTCT 145

RESULT 14

US-09-299-141-4  
 Sequence 4, Application US/09299141  
 Patent No. 6461606  
 GENERAL INFORMATION:  
 APPLICANT: FLOTTE, TERENCE R.  
 APPLICANT: SONG, SITHONG  
 APPLICANT: BYRNE, BARRY J.  
 APPLICANT: MORGAN, MICHAEL  
 TITLE OF INVENTION: MATERIALS AND METHODS FOR GENE THERAPY  
 FILE REFERENCE: 4300\_011800  
 CURRENT APPLICATION NUMBER: US/09/299,141  
 CURRENT FILING DATE: 1999-04-23  
 EARLIER APPLICATION NUMBER: 60/083,025  
 EARLIER FILING DATE: 1998-04-24  
 NUMBER OF SEQ ID NOS: 13  
 SOFTWARE: Patentin Ver. 2.0  
 SEQ ID NO: 4  
 LENGTH: 5932  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Description of Artificial Sequence:p43C-AT  
 US-09-299-141-4

Query Match 100.0%; Score 145; DB 4; Length 5932;  
 Best Local Similarity 100.0%; Pred. No. 2.9e-31;  
 Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACTCCCTCTGGCGCTGCTGTCAGTGGCGGGCACAAAGGTGCC 60  
 Db 1 TTGGCCACTCCCTCTGGCGCTGCTGTCAGTGGCGGGCACAAAGGTGCC 60

Qy 3078 TTGGCCACTCCCTCTGGCGCTGCTGTCAGTGGCGGGCACAAAGGTGCC 3019

Qy 61 CGACGCCGGCTTGGCCGGGGCCCTAAGTGAGCGAGCGGCCAGAGGGAGTG 120  
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Db 3018 CGAGCCGGCTTGGCCGGGGCCCTAAGTGAGCGAGCGGCCAGAGGGAGTG 2959  
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Qy 121 GCCAACTCGATCACTAGGGTTCT 145  
||| ||||| ||||| ||||| ||||| ||||| |||||  
Db 2958 GCCAACTCGATCACTAGGGTTCT 2934  
||| ||||| |||||

Search completed: December 23, 2004, 13:22:10  
Job time : 58.3889 secs

This Page Blank (uspto)

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using Bw model

Run on: December 23, '2004, 13:09:55 ; Search time 248.111 Seconds

3254.138 Million cell updates/sec  
(without alignments)

Scoring table: US-10-620-039-1

Perfect score: 145

Sequence: 1 TTGGCCACTCCCTCTGGG.....CTCCATCACTAGGGTCT 145

Total number of hits satisfying chosen parameters:

8210666

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

\*

Listing first 45 summaries

Database : Published Applications\_NA.\*

1: /cgn2\_6/\_ptodata/1/pub/pna/US07\_PUBCOMB.seq:\*

2: /cgn2\_6/\_ptodata/1/pub/pna/PCT\_NEW\_PUB.seq:\*

3: /cgn2\_6/\_ptodata/1/pub/pna/US06\_NEW\_PUB.seq:\*

4: /cgn2\_6/\_ptodata/1/pub/pna/PCTUS\_PUBCOMB.seq:\*

5: /cgn2\_6/\_ptodata/1/pub/pna/US07\_NEW\_PUB.seq:\*

6: /cgn2\_6/\_ptodata/1/pub/pna/PCTUS\_PUBCOMB.seq:\*

7: /cgn2\_6/\_ptodata/1/pub/pna/US08\_NEW\_PUB.seq:\*

8: /cgn2\_6/\_ptodata/1/pub/pna/US09\_PUBCOMB.seq:\*

9: /cgn2\_6/\_ptodata/1/pub/pna/US09A\_PUBCOMB.seq:\*

10: /cgn2\_6/\_ptodata/1/pub/pna/US09B\_PUBCOMB.seq:\*

11: /cgn2\_6/\_ptodata/1/pub/pna/US09C\_PUBCOMB.seq:\*

12: /cgn2\_6/\_ptodata/1/pub/pna/US09\_NEW\_PUB.seq:\*

13: /cgn2\_6/\_ptodata/1/pub/pna/US10A\_PUBCOMB.seq:\*

14: /cgn2\_6/\_ptodata/1/pub/pna/US10B\_PUBCOMB.seq:\*

15: /cgn2\_6/\_ptodata/1/pub/pna/US10C\_PUBCOMB.seq:\*

16: /cgn2\_6/\_ptodata/1/pub/pna/US10B\_PUBCOMB.seq:\*

17: /cgn2\_6/\_ptodata/1/pub/pna/US10B\_PUBCOMB.seq:\*

18: /cgn2\_6/\_ptodata/1/pub/pna/US10\_NEW\_PUB.seq:\*

19: /cgn2\_6/\_ptodata/1/pub/pna/US11\_NEW\_PUB.seq:\*

20: /cgn2\_6/\_ptodata/1/pub/pna/US60\_NEW\_PUB.seq:\*

21: /cgn2\_6/\_ptodata/1/pub/pna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	145	100.0	145	9 US-09-782-378A-6	Sequence 6, Appli
2	145	100.0	145	18 US-10-837-029-1	Sequence 1, Appli
3	145	100.0	145	18 US-10-837-029-1	Sequence 1, Appli
4	145	100.0	146	13 US-10-335-984-8	Sequence 8, Appli
5	145	100.0	165	9 US-09-782-378A-8	Sequence 8, Appli
6	145	100.0	165	13 US-10-054-665-7	Sequence 13, Appli
C 7	145	100.0	165	15 US-10-159-969-13	Sequence 3, Appli
8	145	100.0	170	17 US-10-659-641-3	Sequence 1, Appli
C 9	145	100.0	175	16 US-10-216-356-1	Sequence 58, Appli
10	145	100.0	207	15 US-10-023-208-58	Sequence 26, Appli
11	145	100.0	955	10 US-09-845-416-26	Sequence 26, Appli
C 12	145	100.0	955	10 US-09-845-416-26	Sequence 26, Appli

RESULT 1

US-09-782-378A-6

Sequence 6, Application US/09782378A

Patent No. US20020102731A1

GENERAL INFORMATION:

APPLICANT: Hearing, Patrick

APPLICANT: Bahou, Wadie

APPLICANT: Sandalon, Ziv

APPLICANT: Gnatenko, Dmitri

TITLE OF INVENTION: Adenoviral Vectors

FILE REFERENCE: SPONYB-04970

CURRENT APPLICATION NUMBER: US/09/782,378A

CURRENT FILING DATE: 2001-02-12

PRIOR APPLICATION NUMBER: 60/237,747

PRIOR FILING DATE: 2000-10-02

NUMBER OF SEQ ID NOS: 27

SOFTWARE: PatentIn version 3.0

SEQ ID NO 6

LENGTH: 145

TYPE: DNA

ORGANISM: Homo sapiens

US-09-782-378A-6

Query Match

Best Local Similarity

100.0%

Score 145; DB 9;

Pred. No. 4.1e-35;

Patent No. 4.1e-35;

Matches 145; Consistency 0;

MinMatches 0;

Indels 0;

Gaps 0;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

;

Qy 121 GCCAACTCATCATAGGGGTTCT 145  
 Db 121 GCCAACTCATCATAGGGGTTCT 145

RESULT 2  
 US-10-837-029-1  
 ; Sequence 1, Application US/10837029  
 ; Publication No. US20040248301A1  
 ; GENERAL INFORMATION:  
 ; TITLE OF INVENTION: INTRAVECTOR HETEROLOGOUS TERMINAL PALINDROMIC SEQUENCES  
 ; FILE REFERENCE: 875 105US1  
 ; CURRENT APPLICATION NUMBER: US/10/837,029  
 ; CURRENT FILING DATE: 2004-04-30  
 ; PRIOR APPLICATION NUMBER: US 10/194,421  
 ; PRIOR FILING DATE: 2002-07-12  
 ; PRIOR APPLICATION NUMBER: US 60/305,204  
 ; PRIOR FILING DATE: 2001-07-13  
 ; SEQ ID NO 1  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; LENGTH: 145  
 ; TYPE: DNA  
 ; ORGANISM: Adeno-associated virus  
 US-10-837-029-1

Query Match 100.0%; Score 145; DB 18; Length 145;  
 Best Local Similarity 100.0%; Pred. No. 4.1e-35;  
 Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACCTCCCTCTGGCGCTGCGCTCATGTAGCGCCGACAAAGGTGCC 60  
 Db 1 TTGGCCACCTCCCTCTGGCGCTGCGCTCATGTAGCGCCGACAAAGGTGCC 60

Qy 61 CGACCCCCGGCTTGCGCGCCCTAGTGTAGCGCCGACAGGGAGTG 120  
 Db 61 CGACCCCCGGCTTGCGCGCCCTAGTGTAGCGCCGACAGGGAGTG 120

Qy 121 GCCAACTCATCATAGGGTTCT 145  
 Db 121 GCCAACTCATCATAGGGTTCT 145

RESULT 3  
 US-10-837-029-11  
 ; Sequence 11, Application US/10837029  
 ; Publication No. US20040248301A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Engelhardt, John F.  
 ; TITLE OF INVENTION: ADENO ASSOCIATED VIRUS VECTORS WITH  
 ; INTRAVECTOR HETEROLOGOUS TERMINAL PALINDROMIC SEQUENCES  
 ; FILE REFERENCE: 875 .105US1  
 ; CURRENT APPLICATION NUMBER: US/10/837,029  
 ; CURRENT FILING DATE: 2004-04-30  
 ; PRIOR APPLICATION NUMBER: US 10/194,421  
 ; PRIOR FILING DATE: 2002-07-12  
 ; PRIOR APPLICATION NUMBER: US 60/305,204  
 ; PRIOR FILING DATE: 2001-07-13  
 ; NUMBER OF SEQ ID NOS: 11  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 11  
 ; LENGTH: 145  
 ; TYPE: DNA  
 ; ORGANISM: Adeno-associated virus  
 US-10-837-029-11

Query Match 100.0%; Score 145; DB 18; Length 145;  
 Best Local Similarity 100.0%; Pred. No. 4.1e-35;  
 Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACCTCCCTCTGGCGCTGCGCTCATGTAGCGCCGACAAAGGTGCC 60

Db 1 TTGGCCACCTCCCTCTGGCGCTGCGCTCATGTAGCGCCGACAAAGGTGCC 60

Qy 61 CGACCCCCGGCTTGCGCGCCCTAGTGTAGCGCCGACAGGGAGTG 120  
 Db 61 CGACCCCCGGCTTGCGCGCCCTAGTGTAGCGCCGACAGGGAGTG 120

Qy 121 GCCAACTCATCATAGGGTTCT 145  
 Db 121 GCCAACTCATCATAGGGTTCT 145

RESULT 4  
 US-10-135-984-8  
 ; Sequence 8, Application US/10135984  
 ; Publication No. US2002018259A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Matthew D. Weitzman  
 ; APPLICANT: Anton J. Cathomen  
 ; TITLE OF INVENTION: METHOD OF IDENTIFYING CELLULAR VIRUS (AAV)  
 ; FILE REFERENCE: SALKINS .041A  
 ; CURRENT APPLICATION NUMBER: US/10/135,984  
 ; PRIOR APPLICATION NUMBER: 60/286951  
 ; PRIOR FILING DATE: 2001-04-27  
 ; NUMBER OF SEQ ID NOS: 8  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 8

Query Match 100.0%; Score 145; DB 13; Length 146;  
 Best Local Similarity 100.0%; Pred. No. 4.1e-35;  
 Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACCTCCCTCTGGCGCTGCGCTCATGTAGCGCCGACAAAGGTGCC 60  
 Db 1 TTGGCCACCTCCCTCTGGCGCTGCGCTCATGTAGCGCCGACAAAGGTGCC 60

Qy 61 CGACCCCCGGCTTGCGCGCCCTAGTGTAGCGCCGACAGGGAGTG 120  
 Db 61 CGACCCCCGGCTTGCGCGCCCTAGTGTAGCGCCGACAGGGAGTG 120

Qy 121 GCCAACTCATCATAGGGTTCT 145  
 Db 121 GCCAACTCATCATAGGGTTCT 145

RESULT 5  
 US-09-782-378A-8  
 ; Sequence 8, Application US/09782378A  
 ; Patent No. US2002010273A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Hearing, Patrick  
 ; APPLICANT: Bahou, Nadie  
 ; APPLICANT: Sandalon, Ziv  
 ; APPLICANT: Gratenko, Dmitri  
 ; TITLE OF INVENTION: Adenoviral Vectors  
 ; FILE REFERENCE: STONY-B-14970  
 ; CURRENT APPLICATION NUMBER: US/09/782,378A  
 ; CURRENT FILING DATE: 2001-02-12  
 ; PRIOR APPLICATION NUMBER: 60/237,747  
 ; PRIOR FILING DATE: 2000-10-02  
 ; NUMBER OF SEQ ID NOS: 27  
 ; SOFTWARE: Patentin version 3.0  
 ; SEQ ID NO 8

Query Match 100.0%; Score 145; DB 18; Length 145;  
 Best Local Similarity 100.0%; Pred. No. 4.1e-35;  
 Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACCTCCCTCTGGCGCTGCGCTCATGTAGCGCCGACAAAGGTGCC 60

Query Match 100.0%; Score 145; DB 9; Length 165;  
 Best Local Similarity 100.0%; Pred. No. 4e-35; Indels 0; Gaps 0;  
 Matches 145; Conservative 0; Mismatches 0;

Qy 1 TTGCCCACTCCCTCTGGCGCTGCTCACTGAGGCCGGGACAAAGGTGCC 60  
 Db 21 TTGCCCACTCCCTCTGGCGCTGCTCACTGAGGCCGGGACAAAGGTGCC 80

Qy 61 CGAGCCGGCTGCGCTTGGCCGGACCGCCCTAGTGCGAGCGAGGGACTG 120  
 Db 81 CGAGCCGGCTTGGCCGGACCGCCCTAGTGCGAGCGAGGGACTG 140

Qy 121 GCCAACTCCATCACTAGGGTTCT 145

Db 141 GCCAACTCCATCACTAGGGTTCT 165

---

RESULT 6  
 US-10-054-665-7  
 ; Sequence 7, Application US/10054665  
 ; PRIORITY NUMBER: US20020197237A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Engelhardt, John F.  
 ; APPLICANT: Duan, Dongsheng  
 ; TITLE OF INVENTION: Adeno-associated virus vectors  
 ; FILE REFERENCE: 875 007052

; CURRENT FILING DATE: 2002-06-13  
 ; PRIOR APPLICATION NUMBER: US 09/276,625  
 ; PRIOR FILING DATE: 1999-03-25  
 ; PRIOR APPLICATION NUMBER: US 60/086,166  
 ; PRIOR FILING DATE: 1998-05-20  
 ; NUMBER OF SEQ ID NOS: 13  
 ; SEQ ID NO 7  
 ; LENGTH: 165  
 ; SOFTWARE: FastSEQ for Windows Version 4.0

; \* FEATURE: Unknown  
 ; OTHER INFORMATION: SEQ ID NO 1 of U.S. Patent No. 5,478,745

US-10-054-665-7

Query Match 100.0%; Score 145; DB 13; Length 165;  
 Best Local Similarity 100.0%; Pred. No. 4e-35; Indels 0; Gaps 0;  
 Matches 145; Conservative 0; Mismatches 0;

Qy 1 TTGCCCACTCCCTCTGGCGCTGCTCACTGAGGCCGGGACAAAGGTGCC 60  
 Db 21 TTGCCCACTCCCTCTGGCGCTGCTCACTGAGGCCGGGACAAAGGTGCC 80

Qy 61 CGAGCCGGCTGCGCTTGGCCGGACCGCCCTAGTGCGAGCGAGGGACTG 120  
 Db 81 CGAGCCGGCTTGGCCGGACCGCCCTAGTGCGAGCGAGGGACTG 140

Qy 121 GCCAACTCCATCACTAGGGTTCT 145

Db 141 GCCAACTCCATCACTAGGGTTCT 165

---

RESULT 8  
 US-10-669-641-3  
 ; Sequence 3, Application US/10669641  
 ; Publication No. US20040137626A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: WAGNER, THOMAS E.  
 ; YU, XIANZHANG  
 ; TITLE OF INVENTION: AAV ITR-MEDIATED MODULATION  
 ; FILE REFERENCE: 035879-0165  
 ; CURRENT APPLICATION NUMBER: US/10/669,641  
 ; CURRENT FILING DATE: 2003-09-25  
 ; PRIOR APPLICATION NUMBER: 60/413,450  
 ; PRIOR FILING DATE: 2002-09-26  
 ; NUMBER OF SEQ ID NOS: 3  
 ; SOFTWARE: Patentin Ver. 3.2  
 ; SEQ ID NO 3  
 ; LENGTH: 170  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic AAV  
 ; OTHER INFORMATION: ITR nucleotide sequence  
 US-10-669-641-3

Query Match 100.0%; Score 145; DB 17; Length 170;  
 Best Local Similarity 100.0%; Pred. No. 4e-35; Indels 0; Gaps 0;

Qy 1 TTGCCCACTCCCTCTGGCGCTGCTCACTGAGGCCGGGACAAAGGTGCC 60  
 Db 1 TTGCCCACTCCCTCTGGCGCTGCTCACTGAGGCCGGGACAAAGGTGCC 60

Qy 61 CGAGCCGGCTGCGCTTGGCCGGACCGCCCTAGTGCGAGCGAGGGACTG 120  
 Db 61 CGAGCCGGCTTGGCCGGACCGCCCTAGTGCGAGCGAGGGACTG 140

Qy 121 GCCAACTCCATCACTAGGGTTCT 145

Db 121 GCCAACTCCATCACTAGGGTTCT 145

---

RESULT 9  
 US-10-276-356-1/C  
 ; Sequence 1, Application US/10159968  
 ; PRIORITY NUMBER: US20030152914A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Kaplitt, Michael G.  
 ; APPLICANT: Muratov, Serge  
 ; TITLE OF INVENTION: Method for Generating Replication Defective Viral Vectors That are Helper Free  
 ; FILE REFERENCE: 600-1-286  
 ; CURRENT APPLICATION NUMBER: US/10/159,968  
 ; CURRENT FILING DATE: 2002-05-31  
 ; PRIOR APPLICATION NUMBER: US 60/294,797

GENERAL INFORMATION:  
 ; APPLICANT: University of No. US20040029106Alth Carolina at Chapel Hill  
 ; APPLICANT: Samulski, R. Jude  
 ; APPLICANT: McCarty, Douglas M.  
 ; TITLE OF INVENTION: DUPLEXED PARVOVIRUS VECTORS  
 ; CURRENT APPLICATION NUMBER: US/10/276-356  
 ; CURRENT FILING DATE: 2001-05-31  
 ; PRIOR APPLICATION NUMBER: PCT/US01/17587  
 ; PRIOR FILING DATE: 2001-05-31  
 ; NUMBER OF SEQ ID NOS: 1  
 ; SOFTWARE: PatentIn version 3.1  
 SEQ ID NO 1  
 LENGTH: 175  
 TYPE: DNA  
 ORGANISM: Artificial sequence  
 FEATURE:  
 OTHER INFORMATION: Inverted terminal repeat from the AAV-2 vector plasmid pSub 201  
 US-10-276-356-1

Query Match 100.0%; Score 145; DB 16; Length 175;  
 Best Local Similarity 100.0%; Pred. No. 4e-35; Indels 0; Gaps 0;  
 Matches 145; Conservative 0; Mismatches 0;

Qy: 1 TTGGCCACTCCCTCTGGCGCTGCTGCTCACTGGCCGGACAAAGGTGCGC 60  
 Db: 150 TTGGCCACTCCCTCTGGCGCTGCTGCTCACTGGCCGGACAAAGGTGCGC 91

Qy: 61 CGACCCCGGGCTTGTCCGGGGCCCTGAGCGGAGGAGGAGT 120  
 Db: 90 CGACCCGGCTTGTCCGGGGCCCTGAGCGGAGGAGGAGT 31

Qy: 121 GCCAACTCATCACTAGGGTCTCT 145  
 Db: 30 GCCAACTCATCACTAGGGTCTCT 6

RESULT 10  
 US-10-023-208-58  
 ; Sequence 58, Application US/10023208  
 ; Publication No. US20030124537A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Li, Min  
 ; APPLICANT: Liu, Yuan-Ching  
 ; TITLE OF INVENTION: PROCARYOTIC LIBRARIES AND USES  
 ; FILE REFERENCE: A-70174-1/RFT/RMS/BMK  
 ; CURRENT APPLICATION NUMBER: US/10/023,208  
 ; CURRENT FILING DATE: 2001-12-17  
 ; PRIOR APPLICATION NUMBER: US 60/256,163  
 ; PRIOR FILING DATE: 2000-12-14  
 ; NUMBER OF SEQ ID NOS: 63  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 58  
 ; LENGTH: 207  
 ; TYPE: DNA  
 ; OTHER INFORMATION: Artificial sequence  
 ; FEATURE:  
 OTHER INFORMATION: synthetic enzyme attachment site sequence  
 US-10-023-208-58

Query Match 100.0%; Score 145; DB 15; Length 207;  
 Best Local Similarity 100.0%; Pred. No. 3 9e-35; Indels 0; Gaps 0;  
 Matches 145; Conservative 0; Mismatches 0;

Qy: 1 TTGGCCACTCCCTCTGGCGCTGCTCACTGGCCGGACAAAGGTGCGC 60  
 Db: 42 TTGGCCACTCCCTCTGGCGCTGCTCACTGGCCGGACAAAGGTGCGC 101

Qy: 61 CGACGCGGGGTTTGGCGGGACTGAGGGAGGAGGAGT 120  
 Db: 102 CGACGCGGGGTTTGGCGGGCTCACTGAGGGAGGAGGAGT 161

Qy: 121 GCCAACTCATCACTAGGGTCTCT 145

Db 162 GCCAACTCCATCACTAGGGTCTCT 186

RESULT 11  
 US-09-845-416-26  
 ; Sequence 26, Application US/09845416  
 ; Publication No. US20030171312A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: XIAO, XIAO  
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE  
 ; FILE REFERENCE: DE1142  
 ; CURRENT APPLICATION NUMBER: US/09/845,416  
 ; CURRENT FILING DATE: 2001-04-10  
 ; PRIOR APPLICATION NUMBER: 60/200,777  
 ; PRIOR FILING DATE: 2000-04-28  
 ; NUMBER OF SEQ ID NOS: 36  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 26  
 ; LENGTH: 955  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-845-416-26

Query Match 100.0%; Score 145; DB 10; Length 955;  
 Best Local Similarity 100.0%; Pred. No. 3.2e-35; Indels 0; Gaps 0;  
 Matches 145; Conservative 0; Mismatches 0;

Qy: 1 TTGGCCACTCCCTCTGGCGCTGCTCACTGGCCGGACAAAGGTGCGC 60  
 Db: 1 TTGGCCACTCCCTCTGGCGCTGCTCACTGGCCGGACAAAGGTGCGC 60

Qy: 61 CGACGCGGGTTCGGCTAGTGGAGGAGGAGGAGT 120  
 Db: 61 CGACGCGGGCTTCGGCTAGTGGAGGAGGAGGAGT 120

Qy: 121 GCCAACTCCATCACTAGGGTCTCT 145  
 Db: 121 GCCAACTCCATCACTAGGGTCTCT 145

RESULT 12  
 US-09-845-416-26/C  
 ; Sequence 26, Application US/09845416  
 ; Publication No. US20030171312A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: XIAO, XIAO  
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE  
 ; FILE REFERENCE: DE1142  
 ; CURRENT APPLICATION NUMBER: US/09/845,416  
 ; CURRENT FILING DATE: 2001-04-10  
 ; PRIOR APPLICATION NUMBER: 60/200,777  
 ; PRIOR FILING DATE: 2000-04-28  
 ; NUMBER OF SEQ ID NOS: 36  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 26  
 ; LENGTH: 955  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-845-416-26

Query Match 100.0%; Score 145; DB 10; Length 955;  
 Best Local Similarity 100.0%; Pred. No. 3.2e-35; Indels 0; Gaps 0;  
 Matches 145; Conservative 0; Mismatches 0;

Qy: 1 TTGGCCACTCCCTCTGGCGCTGCTCACTGGCCGGACAAAGGTGCGC 60  
 Db: 955 TTGGCCACTCCCTCTGGCGCTGCTCACTGGCCGGACAAAGGTGCGC 896

Qy: 61 CGACGCGGGTTCGGCTAGTGGAGGAGGAGT 120  
 Db: 61 CGACGCGGGCTTCGGCTAGTGGAGGAGGAGT 120

Qy: 121 GCCAACTCCATCACTAGGGTCTCT 145

Db 895 CGACCCCGGCTTGCCTGGGGCTAGTGAGCGAGCGAGGGACTG 836 Qy 61 CGACGCCGGCTTGCCTGGGGCTAGTGAGCGAGCGAGGGACTG 120  
 Qy 121 GCCACTCCATCACTAGGGTCT 145 Db 927 CGACGCCGGCTTGCCTGGGGCTAGTGAGCGAGCGAGGGACTG 868  
 Db 835 GCCACTCCATCACTAGGGTCT 811 Qy 121 GCCACTCCATCACTAGGGTCT 145  
 Db 867 GCCACTCCATCACTAGGGTCT 843

RESULT 13  
 US-09-845-416-33  
 Sequence 33, Application US/0945416  
 Publication No. US20030171312A1.  
 GENERAL INFORMATION  
 APPLICANT: XIAO, XIAO  
 TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE  
 TITLE OF INVENTION: THEREOF  
 FILE REFERENCE: DE1142  
 CURRENT APPLICATION NUMBER: US/09/845,416  
 CURRENT FILING DATE: 2001-04-30  
 PRIOR APPLICATION NUMBER: 60/200,777  
 PRIOR FILING DATE: 2000-04-28  
 NUMBER OF SEQ ID NOS: 36  
 SEQ ID NO: 33  
 LENGTH: 987  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 US-09-845-416-33

Query Match 100.0%; Score 145; DB 10; Length 987;  
 Best Local Similarity 100.0%; Pred. No. 3.1e-35;  
 Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACTCCCTCTGGCGCTGCGCTACTGGCCGGCCACAAAGGTGGC 60  
 Db 1 TTGGCCACTCCCTCTGGCGCTGCGCTACTGGCCGGCCACAAAGGTGGC 60  
 Qy 61 CGAGCCCGGGCTTGCCGGGCGACCTAGTGAGCGAGCGAGGGACTG 120  
 Db 61 CGAGCCCGGGCTTGCCGGGCGACCTAGTGAGCGAGCGAGGGACTG 120  
 Qy 121 GCCACTCCATCACTAGGGTCT 145  
 Db 121 GCCACTCCATCACTAGGGTCT 145

RESULT 14  
 US-09-845-416-33/C  
 Sequence 33, Application US/0945416  
 Publication No. US20030171312A1.  
 GENERAL INFORMATION  
 APPLICANT: XIAO, XIAO  
 TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE  
 FILE REFERENCE: DE1142  
 CURRENT APPLICATION NUMBER: US/09/845,416  
 CURRENT FILING DATE: 2001-04-30  
 PRIOR APPLICATION NUMBER: 60/200,777  
 PRIOR FILING DATE: 2000-04-28  
 NUMBER OF SEQ ID NOS: 36  
 SEQ ID NO: 33  
 LENGTH: 987  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 US-09-845-416-33

Query Match 100.0%; Score 145; DB 10; Length 987;  
 Best Local Similarity 100.0%; Pred. No. 3.1e-35;  
 Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACTCCCTCTGGCGCTGCGCTACTGGCCGGCCACAAAGGTGGC 60  
 Db 987 TTGGCCACTCCCTCTGGCGCTGCGCTACTGGCCGGCCACAAAGGTGGC 60  
 Qy 121 GCCACTCCATCACTAGGGTCT 145  
 Db 928 TTGGCCACTCCCTCTGGCGCTGCGCTACTGGCCGGCCACAAAGGTGGC 928

RESULT 15  
 US-09-845-416-32  
 Sequence 32, Application US/0945416  
 Publication No. US20030171312A1.  
 GENERAL INFORMATION  
 APPLICANT: XIAO, XIAO  
 TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE  
 FILE REFERENCE: DE1142  
 CURRENT APPLICATION NUMBER: US/09/845,416  
 CURRENT FILING DATE: 2001-04-30  
 PRIOR APPLICATION NUMBER: 60/200,777  
 PRIOR FILING DATE: 2000-04-28  
 NUMBER OF SEQ ID NOS: 36  
 SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO: 32  
 LENGTH: 4414  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 US-09-845-416-32

Query Match 100.0%; Score 145; DB 10; Length 4414;  
 Best Local Similarity 100.0%; Pred. No. 2.5e-35;  
 Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGCCACTCCCTCTGGCGCTGCGCTACTGGCCGGCCACAAAGGTGGC 60  
 Db 1 TTGGCCACTCCCTCTGGCGCTGCGCTACTGGCCGGCCACAAAGGTGGC 60  
 Qy 61 CGAGCCCGGGCTTGCCGGGCGACCTAGTGAGCGAGCGAGGGACTG 120  
 Db 61 CGAGCCCGGGCTTGCCGGGCGACCTAGTGAGCGAGCGAGGGACTG 120  
 Qy 61 CGAGCCCGGGCTTGCCGGGCGACCTAGTGAGCGAGCGAGGGACTG 120  
 Db 61 CGAGCCCGGGCTTGCCGGGCGACCTAGTGAGCGAGCGAGGGACTG 120  
 Qy 121 GCCACTCCATCACTAGGGTCT 145  
 Db 121 GCCACTCCATCACTAGGGTCT 145

Search completed: December 23, 2004, 14:51:20  
 Job time : 250.111 secs

This Page Blank (uspto)